

CLEAN COPY OF THE CLAIMS

1. (Canceled) A cardiovascular healthcare management system comprising:
 - (a) an infomediary site having databases for cardiovascular healthcare management;
 - (b) a data entry interface for receiving patient personal data and test results and storing the data and results in the infomediary site databases;
 - (c) a diagnostic engine for analyzing patient test results;
 - (d) a physician data access interface to allow physician access to the infomediary databases; and
 - (e) a communication system allowing the physician to communicate cardiovascular healthcare management information to the patient.
2. (Canceled) The cardiovascular healthcare management system of claim 1 further comprising a cardiovascular knowledge base that stores information related to cardiovascular risk factors.
3. (Canceled) The cardiovascular healthcare management system of claim 1 wherein the diagnostic engine includes algorithms for associating test results with possible treatments.
4. (Canceled) The cardiovascular healthcare management system of claim 1 wherein the diagnostic engine includes algorithms for associating test results with possible diagnoses.
5. (Canceled) The cardiovascular healthcare management system of claim wherein the diagnostic engine includes algorithms for associating diagnosis information with possible treatment plans.
6. (Canceled) The cardiovascular healthcare management system of claim 1 wherein the diagnostic engine for comparing patient's test results compares inputted patient LDL subfraction and HDL subfraction values to normal LDL subfraction and HDL subfraction values. .
7. (Canceled) The cardiovascular healthcare management system of claim 6 wherein the normal LDL subfraction and HDL subfraction values are determined base in part of the values stored in the infomediary database.

8. (Canceled) The cardiovascular healthcare management system of claim 6 wherein the physician dynamically selects parameters for patient test results comparisons.
9. (Canceled) The cardiovascular healthcare management system of claim 1, wherein the patient provides compliance data that is stored in the records for later review by the physician.
10. (Canceled) The cardiovascular healthcare management system of claim 1, further comprising a patient access interface whereby the patient accesses a cardiovascular treatment plan.
11. (Canceled) The cardiovascular healthcare management system of claim 1, wherein the diagnostic engine analyzes test results and provides suggested diagnoses to the physician.
12. (Canceled) The cardiovascular healthcare management system of claim 1, wherein the diagnostic engine analyzes diagnostic information and provides suggested treatment plans.
13. (Canceled) A method of managing cardiovascular healthcare information, comprising the steps of:
 - (a) storing test result data in a database;
 - (b) providing test result data to a physician via a network;
 - (c) receiving diagnostic information from a physician via a network;
 - (d) receiving treatment plan information from a physician via a network; and
 - (e) providing treatment plan information to a patient via a network.
14. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, wherein the step of providing test result data is performed using internet protocols.
15. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, wherein the step of receiving diagnostic information from a physician is performed using internet protocols.
16. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, wherein all the steps of receiving and providing information are performed using internet protocols.

17. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, further comprising the steps of analyzing the test result data and providing diagnosis information to the physician.
18. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, further comprising the steps of analyzing the received diagnosis information and providing suggested treatment plan information to the physician.
19. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, further comprising the step of receiving compliance information from a patient.
20. (Canceled) The method of managing cardiovascular healthcare management system of claim 13, further comprising the step of receiving compliance information from a patient.
21. (Canceled) A cardiovascular healthcare management system comprising:
- (a) an infomediary site having databases including having that include percentage distribution of LDL and HDL subclass particles data derived from laboratory tests wherein the data is included.
 - (b) a data entry interface for receiving patient personal data and test results and storing the data and results in the infomediary site databases wherein the received test results includes patient percentage distribution of LDL and HDL subclass particles;
 - (c) a diagnostic engine for analyzing patient personal data and test results; wherein the diagnostic engine compares received patient percentage distribution LDL and HDL subclass particle data to database LDL and HDL subfraction data with other tests results to generate suggested treatment solutions to the physician.
22. (Currently Amended) The cardiovascular healthcare management system of claim 37 38 further comprising a physician data access interface to allow physician access to the infomediary databases.

23. (Currently Amended) The cardiovascular healthcare management system of claim ~~37~~ 38 further comprising a communication system allowing the physician to communicate cardiovascular healthcare management information to the patient.

24. (Currently Amended) The cardiovascular healthcare management system of claim ~~37~~ 38 further comprising a cardiovascular knowledge base that stores information related to cardiovascular risk factors.

25. (Currently Amended) The cardiovascular healthcare management system of claim ~~37~~ 38 wherein the diagnostic engine includes algorithms for associating test results with possible treatments.

26. (Currently Amended) The cardiovascular healthcare management system of claim ~~37~~ 38 wherein the diagnostic engine includes algorithms for associating test results with possible diagnoses.

27. (Currently Amended) The cardiovascular healthcare management system of claim ~~37~~ 38 wherein the diagnostic engine includes algorithms for associating diagnosis information with possible treatment plans.

28. (Previously Presented) The cardiovascular healthcare management system of claim 27 wherein the treatment plans include personalized drugs, diet and exercise suggestions.

29. (Canceled) The cardiovascular healthcare management system of claim 22 wherein the physician dynamically selects parameters for treatment solutions based on patient test results comparison trends.

30. (Canceled) The cardiovascular healthcare management system of claim 23, wherein the patient provides compliance data that is stored in the records for later review by the physician.

31. (Canceled) The cardiovascular healthcare management system of claim 29, further comprising a patient access interface whereby the patient accesses a cardiovascular treatment plan and views test results including trends over time..

32. (Canceled) The cardiovascular healthcare management system of claim 22, wherein the diagnostic engine analyzes patient test results and provides suggested diagnoses to the physician.

33. (Canceled) The cardiovascular healthcare management system of claim 22, wherein the diagnostic engine analyzes test result, patient data, diagnostic information and provides suggested treatment plans.

34. (Canceled) The cardiovascular healthcare management system of claim 22, wherein the diagnostic engine analyzes test results, patient data, diagnostic information and provides a baseline determination for ongoing therapy monitoring.

35. (Canceled) A cardiovascular healthcare management system comprising:

(a) an infomediary site having databases for cardiovascular healthcare management which includes a database of test results for the percentage distribution of LDL and HDL subclass particles for cardiovascular patients;

(b) a data entry interface for receiving patient personal data and test results for percentage distribution of LDL and HDL subclass particles and storing the data and results in the infomediary site databases;

(c) a diagnostic engine for analyzing patient test results for percentage distribution of LDL and HDL subclass particles with the percentage distribution of LDL and HDL subclass particle database.

36. (Canceled) A cardiovascular healthcare management system comprising:

(a) an infomediary site having databases for cardiovascular healthcare management which includes a database of test results of amounts of LDL and HDL subclass particles for cardiovascular patients;

(b) a data entry interface for receiving patient personal data and test results for amounts of LDL and HDL subclass particles and storing the data and results in the infomediary site databases;

(c) a diagnostic engine for analyzing patient test results of amounts of LDL and HDL subclass particles with the LDL and HDL subclass particle database and relating such results to cardiovascular risk factors.

37. (Canceled) A cardiovascular healthcare management system comprising:

(a) an infomediary site having databases for cardiovascular healthcare management which includes a database of test results of concentration of subclasses of LDL and subclasses of HDL and LDLC and HDLC from cardiovascular patients;

(b) a data entry interface for receiving patient personal data and test results for concentration of subclass of LDL and subclass of HDL and LDLC and HDLC and storing the data and results in the infomediary site databases;

(c) a diagnostic engine for analyzing patient test results for subclasses of LDL, subclasses of HDL, LDLC and HDLC data and identifying patients who do not have hyperlipidemia but are in need of treatment.

38. (New) A cardiovascular healthcare management system comprising:

(a) an infomediary site having databases for cardiovascular healthcare management which includes a database of test results of concentration of subclasses of LDL particles and subclasses of HDL particles from cardiovascular patients;

(b) a data entry interface for receiving patient personal data and test results for concentration of subclasses of LDL particles and subclasses of HDL particles storing the data and results in the infomediary site databases;

(c) a diagnostic engine for analyzing patient test results for subclasses of LDL particles, subclasses of HDL particles data and identifying patients who do not have hyperlipidemia based on total LDL cholesterol and total HDL cholesterol, but are in need of treatment; and

(d) wherein the subclasses of LDL particles and subclasses of HDL particles are levels determined by gradient gel eletrophoresis.